

**VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION**

☒ Conceptual Proposal      ☐ Final Proposal

Date 7/7/11

Contract ID 100618-601

Job No. J6U1028B

County St. Charles

Original Bid Cost \$24,488,236.57

Contractor Fred Weber, Inc.

By Brett Lennon

Designed By MODOT

Phone 314-316-6154

VECP# 11-40 (to be completed by C.O.)

VECP ☒ or PDVECP ☐

**1. Description of existing requirements and proposed change(s). Advantages/Disadvantages**

Currently we are to construct Mid Rivers Mall Drive in three stages per the original plans. In stage III of the current plans access to westbound 94 is restricted for 30 days to allow construction of Ramp 3. FWI is proposing to change the staging to allow a more efficient way of constructing Mid Rivers Mall Dr (see attached plans). With the new staging shoring in stage II can be eliminated along with temporary asphalt widening in stage I. FWI also proposes to build a temporary ramp that would keep access to Westbound 94 open during stage III, eliminating the 30 day closure.

**2. Estimate of reduction in construction costs.** \$10,390.34

**3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.**

None

**4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.**

7/7/11

(date)

**5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.**

                      
(date)

                      
(effect)

**6. Dates of any previous or concurrent submission of the same proposal.**

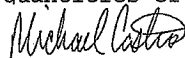
N/A

(date and/or dates)

**Additional Comments:**

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

**Comments:** This concept has been discussed with the St. Charles Area Team and we feel the proposal is a good idea. It will save time on the Mid Rivers Stage Construction Work and provides a temporary ramp so we never loose the SB Mid Rivers Drive to WB 94 Movement. Currently the contract is set up to restrict this movement for 30 days. This change in staging plans will require new signed and sealed plans and the final quantities of signing, striping, traffic control items and engineering need to be included.



Digitally signed by Michael Castro  
DN: cn=Michael Castro, c=US, o=MoDOT, ou=Route 364 Project  
Office, email=michael.castro@modot.mo.gov  
Date: 2011.07.07 19:01:35 -05'00'

I recommend approval.

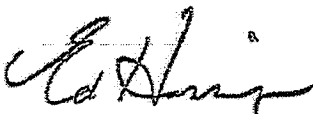
Submitted By Resident Engineer

Date

**Comments:** Satisfactory results must be obtained in the field.



Approval  
Recommended



Digitally signed by Matthew Budd  
DN: cn=Matthew Budd, o=MoDOT, ou=D6  
Construction and Materials,  
email=Matthew.Budd@modot.mo.gov, c=US  
Date: 2011.07.13 12:14:28 -05'00'



Rejection  
Recommended

District Engineer

Date

**Comments:**

No Federal Oversight.



Approval  
Recommended



Rejection  
Recommended

Federal Highway Administration  
Required for FHWA Full Oversight Projects

Date

**Comments:** Approval is contingent on satisfactory results achieved in the field and written acknowledgement by the contractor that they are responsible for the consequences including unanticipated impacts or delays.



Approval



Digitally signed by Ronald Morris  
DN: cn=Ronald Morris, o=MoDOT, ou=3H35,  
email=Ronald.Morris@modot.mo.gov, c=US  
Date: 2011.07.14 15:07:12 -05'00'



Rejection

State Construction and Materials Engineer

Date

**Distribution:** Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA.  
Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

Estimated Quantities

Route 94/364 - J6U10288 Project

Project Number	Line Item Number	Description	Units	Units Previously Provided For	Units To Be Constructed	Units Overrun, Underrun	Unit Price	Amount Of Overrun	Amount Of Underrun
J6U1028B	5003	Temporary shoring	LS	1.00	0.00	1.00	\$13,090.99		-\$13,090.99
	190	Bituminous Pavement Mixture PG64-22 (Base)	TN	380.90	550.90	170.00	\$67.26	\$11,434.20	
	190	Bituminous Pavement Mixture PG64-22 (Base)	TN	380.90	550.90	165.53	\$67.26		-\$11,133.55
	5019	Relocating Temporary Traffic Barrier	LF	0.00	200.00	200.00	\$12.00	\$2,400.00	
								\$13,834.20	-\$24,224.54

Additional Cost

Total Savings - MoDot (50%)	\$10,390.34
Total Savings - Fred Weber, Inc. (50%)	\$5,195.17
	\$5,195.17

Tab 601 - J6U1028B  
Temporary Shoring

West of Kisker Shoring					
Beg. Station	End Station	Length	Height	Cut SF	Fill SF
510+00.00	510+50.00	50.00	0.00	0.00	0.00
510+50.00	511+00.00	50.00	2.00	100.00	0.00
511+00.00	511+50.00	50.00	2.50	125.00	0.00
511+50.00	512+00.00	50.00	2.50	125.00	0.00
512+00.00	512+50.00	50.00	2.50	125.00	0.00
512+50.00	513+00.00	50.00	2.00	100.00	0.00
		300.00		575.00	0.00

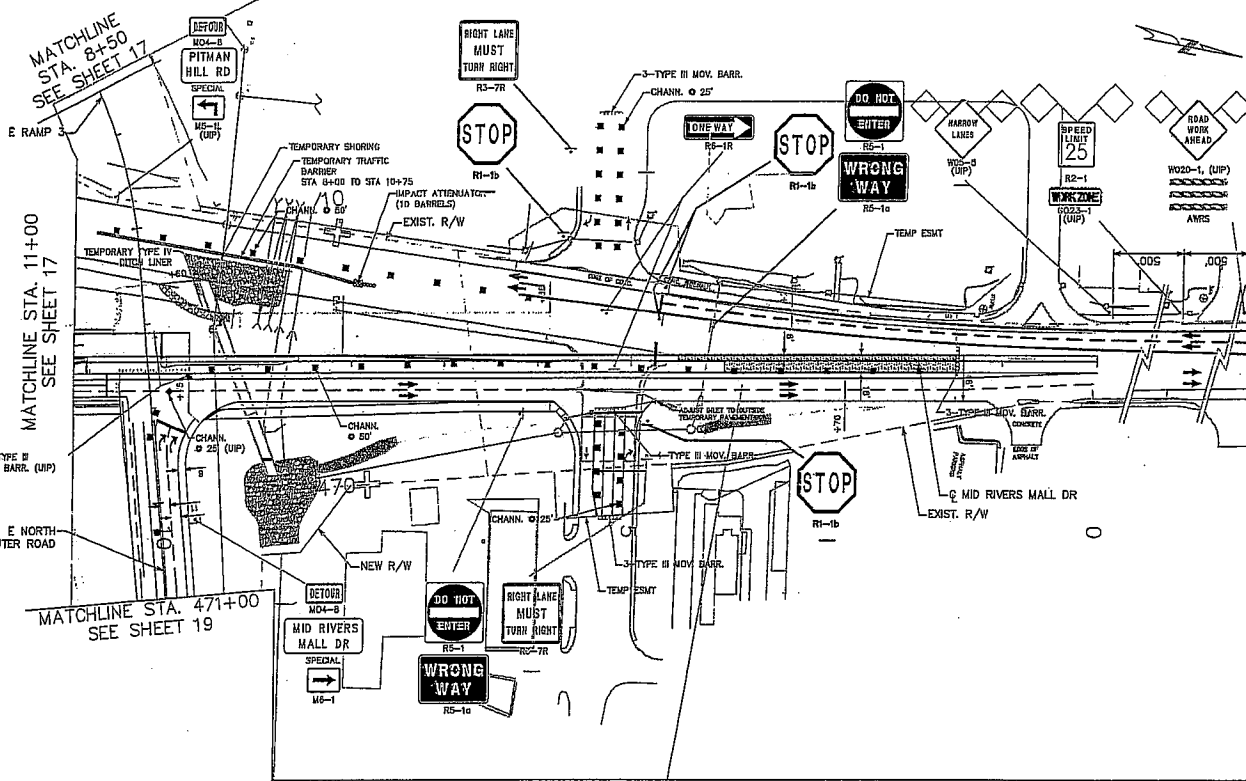
Mid Rivers Mall Dr.					
Beg. Station	End Station	Length	Height	Cut SF	Fill SF
MRMD					
8+80.00	9+00.00	20.00	3.00	60.00	0.00
9+00.00	9+50.00	50.00	3.00	150.00	0.00
9+50.00	9+80.00	30.00	3.00	90.00	0.00
Ramp 3					
10+30.00	10+50.00	20.00	7.00	140.00	0.00
10+50.00	10+80.00	30.00	7.00	210.00	0.00
		150.00		650.00	0.00

Summary			
Location	SF	%	\$
MRMD	650.00	0.24	\$13,090.99
West of Kisker	575.00	0.21	\$11,580.49
East of Kisker	1,500.00	0.55	\$30,209.97
	2,725.00	1.00	\$54,881.45

\$20.14 /SF

9000 ft<sup>2</sup>  
57000 ft<sup>2</sup>





STATE	
MO	MO
SECTION	105
ST CHARLES	
JBU1028B	
CONTRACT NO.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**MoDOT**

U.S. WEST CAPITAL  
 1500 WEST 10TH AVENUE  
 DENVER, CO 80202  
 (303) 733-4000  
 (303) 733-4001  
 (303) 733-4002  
 (303) 733-4003  
 (303) 733-4004  
 (303) 733-4005  
 (303) 733-4006  
 (303) 733-4007  
 (303) 733-4008  
 (303) 733-4009  
 (303) 733-4010

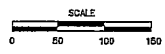
**EFK • Moenllc**

**Engineering Design**

314-723-4000  
 314-723-4001  
 314-723-4002  
 314-723-4003  
 314-723-4004  
 314-723-4005  
 314-723-4006  
 314-723-4007  
 314-723-4008  
 314-723-4009  
 314-723-4010

**DISCLAIMER**  
 THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 312.411, RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL, RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

**NOTE:**  
 1. TRAFFIC FROM EB RTE. 94 TO MRMD SHALL UTILIZE RAMP 4 ONCE MRMD BRIDGE CONSTRUCTION HAS BEEN COMPLETED. THE EASTBOUND 94 LEFT TURN LANES AT THE CROSS-OVER AT STA 49+400 MAY BE CLOSED ONCE MRMD BRIDGE IS OPEN TO TRAFFIC.

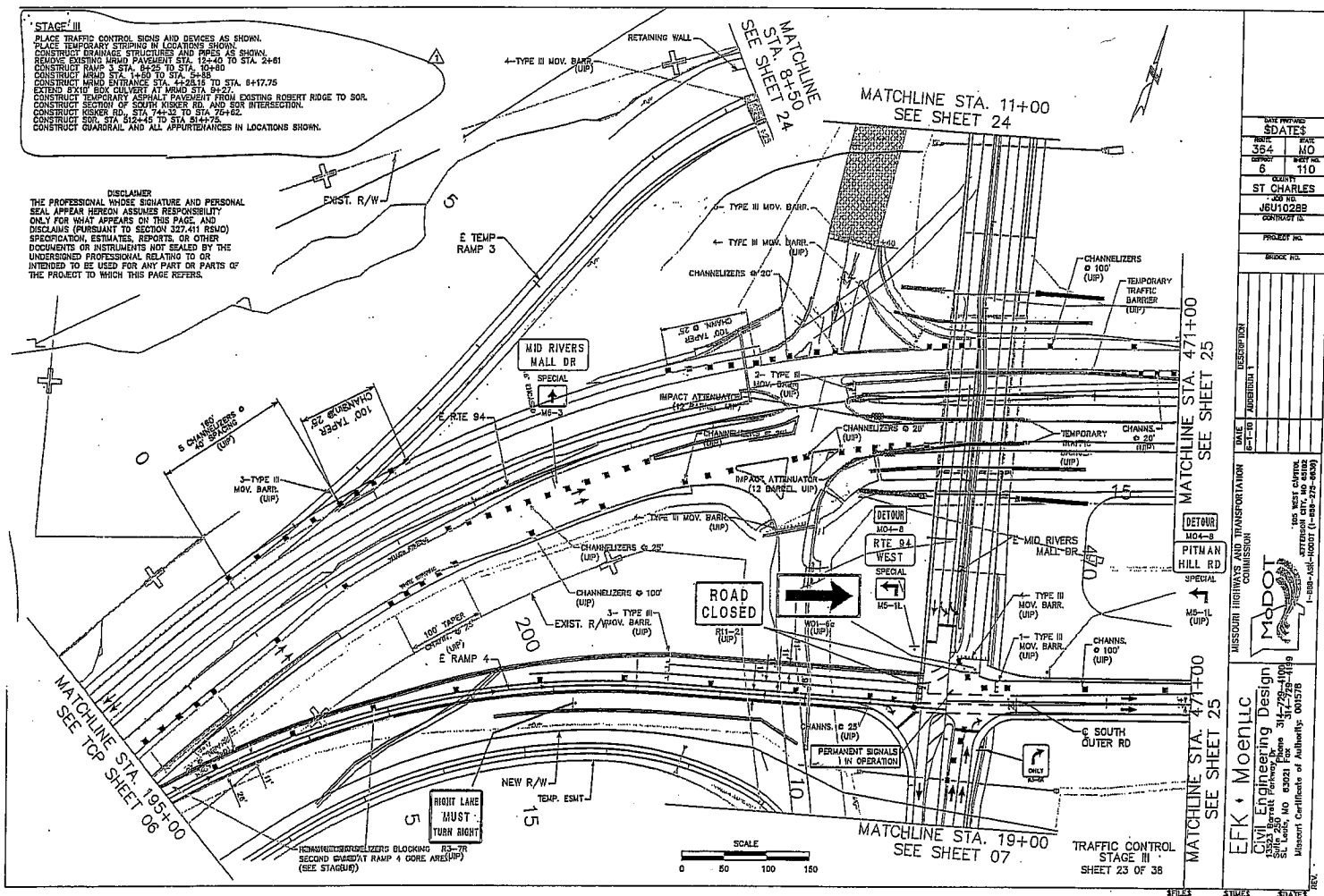


TRAFFIC CONTROL  
 STAGE II  
 SHEET 18 OF 38

FILES STAGES

PLACE TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN.  
PLACE TEMPORARY STRIPING IN LOCATIONS SHOWN.  
CONSTRUCT DRAINAGE STRUCTURES AND PIPES AS SHOWN.  
REPAIR EXISTING ROAD PAVEMENTS FROM STA. 12+00 TO STA. 2+81  
CONSTRUCT RAMP FROM STA. 8+25 TO STA. 14+00  
CONSTRUCT BRIDGE STA. 1+50 TO STA. 5+38  
CONSTRUCT ROAD ENTRANCE STA. 4+23+15 TO STA. 8+17+75  
CONSTRUCT 8'X20' BOX CULVERT FROM STA. 14+00 TO STA. 15+00  
CONSTRUCT TEMPORARY ASPHALT PAVEMENT FROM EXISTING ROBERT RIDGE TO SOR.  
CONSTRUCT SECTION OF SOUTH KUMBER RD. AND SOR INTERSECTION.  
CONSTRUCT KUMBER RD. STA. 74+00 TO STA. 76+62.  
CONSTRUCT SOR STA. 812+45 TO STA. 815+75  
CONSTRUCT GUARDRAIL AND ALL APPURTENANCES IN LOCATIONS SHOWN.

DISCLAIMER  
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL  
SEAL APPEAR HEREON ASSUMES RESPONSIBILITY  
ONLY FOR WHAT APPEARS ON THIS PAGE, AND  
DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO)  
SPECIFICATION, ESTIMATES, REPORTS, OR OTHER  
DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE  
UNDERSIGNED PROFESSIONAL RELATING TO OR  
INTENDED TO BE USED FOR ANY PART OR PARTS OF  
THE PROJECT TO WHICH THIS PAGE REFERS.



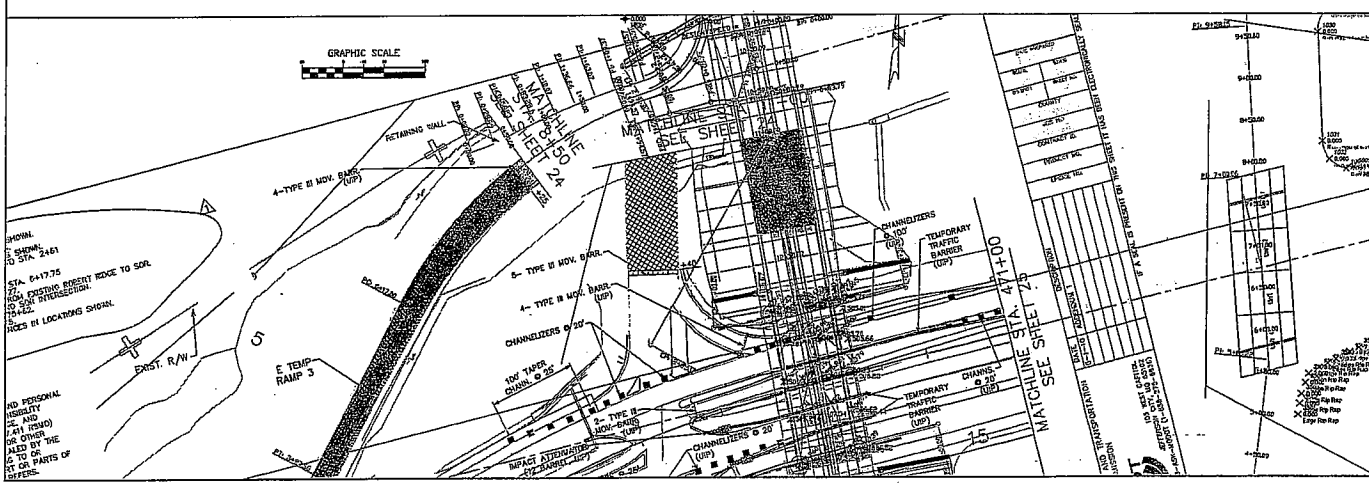
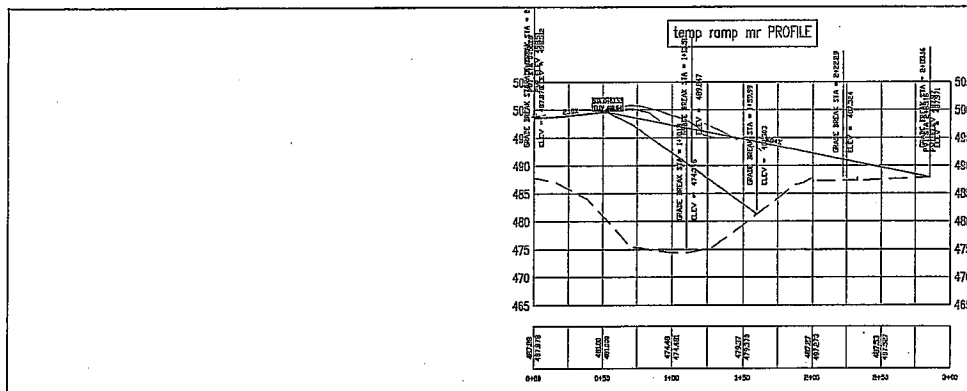
TIMES      DATES

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN CONTAMINATED









**ROUTE 364B**  
Mid Rivers Mall Temp Ramp

Drawn By: JH/3  
Checked: JH/3/11

**FRED WEBER LLC**

REVISIONS

NO.	DATE	DESCRIPTION
1	01/11/11	ISSUED FOR PERMIT

# VALUE ENGINEERING CHECK SHEET

## **TYPE OF WORK**

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☒ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc

## **SUMMARY OF PROPOSAL**

(If needed, condense summary to a couple of lines)

Contractor is proposing to revise the traffic control plan by revising the staging to keep from closing access from Mid Rivers Drive to WB 94 for 30 days, which was allowed in the contract. This will be accomplished by constructing a temporary ramp and eliminating temporary shoring and temporary asphalt widening.

---

---

---

## **SCANNING OF DOCUMENT**

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

---

---

---

